

# INTERNATIONAL SEARCH REPORT

International application No.  
PCT/AU2004/001624

## A. CLASSIFICATION OF SUBJECT MATTER

Int. Cl. <sup>7</sup>: A61K 31/275; C07C 255/34, 255/40; C07D 407/12; A61P 25/00

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

STN (CA, WPIDS): Substructure search based on the examples given

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5,892,096 A (BREWER SCIENCE INC.) 6 April 1999 See whole document	55, 56, 58-61, 64, 65, 69, 71, 75, 76
X	WO 1997/013749 A (ALLIEDSIGNAL INC.) 17 April 1997 See whole document	55, 58, 59, 61, 76-78
X	WO 1995/019169 A (SUGEN INC. et al) 20 July 1995	55-60, 64-65, 69, 71-80
X	Yuan et al, Bioorganic & Medicinal Chemistry, 10, 2002, p4169-4183, "QSAR Studies of HIV-1 Integrase Inhibition". See Table 1, compounds 4a and 5a, and Table 4, compounds 65-73	55-60, 64-66, 69, 71-79

☒ Further documents are listed in the continuation of Box C

☒ See patent family annex

* Special categories of cited documents:	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"A" document defining the general state of the art which is not considered to be of particular relevance	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"E" earlier application or patent but published on or after the international filing date	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"&" document member of the same patent family
"O" document referring to an oral disclosure, use, exhibition or other means	
"P" document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search  
12 January 2005

Date of mailing of the international search report

24 JAN 2005

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>Gazit et al, Journal of Medicinal Chemistry, 1996, 39, p4905-4911, "Dimeric Benzylidenemalononitrile Tyrphostins: Potent Inhibitors of EGF Receptor Tyrosine Kinase <i>in Vitro</i>".</p> <p>See Table 1, compounds 1, 11, 16, 17 and 21</p>	55-60, 64-66, 69, 71-80

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PCT/AU2004/001624

### Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:  
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☒ Claims Nos.: 8, 9, 13, 14, 62, 63, 67 and 68, as well as parts of claims 1-7, 10-12, 15-61, 64-66 and 69-80  
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:  
These claims are defined so broadly and encompass such a variety of compounds that a meaningful search could not be carried out. Only the parts of the claims pertaining to compounds in which R is CONH, V is C, W is CH, Y is cyano and Z is a substituted or unsubstituted phenyl ring were searched.
3. ☐ Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a)

### Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

#### Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

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This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent Document Cited in Search Report		Patent Family Member			
US	5,892,096	US	5,688,987		
WO	1997/013749	CN	1198152	EP	0871610
				US	5,888,481
WO	1995/019169	AU	15633/95	AU	55604/96
		CA	2180658	CA	2215327
		CN	1182371	EP	0804191
		EP	0997153	EP	1000617
		NO	974868	US	5,610,173
		US	5,700,823	US	5,783,592
		US	5,958,959	US	5,990,141
		WO	1996/033745	US	6,335,356
Due to data integration issues this family listing may not include 10 digit Australian applications filed since May 2001.					
END OF ANNEX					